

## ABSTRACT OF THE DISCLOSURE

Methods and systems for flow control over channel-based switched fabric connections between a first side and a second side. At least one posted receive buffer is stored in a receive buffer queue at the first side. A number of credits is incremented based on the at least one posted receive buffer. The second side is notified of the number of credits. A number of send credits is incremented at the second side based on the number of credits. A message is sent from the second side to the first side if the number of send credits is larger than or equal to two or the number of send credits is equal to one and a second number of credits is larger than or equal to one. The second number of credits is based on at least one second posted receive buffer at the second side. Therefore, communication of messages between the first side and the second side is prevented from deadlocking.